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CASwell # C 652 BB

Date Out EFB: NOV 04 1982

TO: Product Manager 17 Gee
TS-767

FROM: Sam Creeger, *MC*
Acting Chief
Review Branch No. 1
Environmental Fate Branch
Hazard Evaluation Division

Attached please find the environmental fate review of:

Reg./File No.: 10182-18

Chemical: Permethrin

Type Product: Insecticide

Product Name: AMBUSH

Company Name ICI Americas, Inc.

Submission Purpose New use in pine seed orchards

ZBB Code: Sec 3 ACTION CODE: 315

Date in: 9/8/82 EFB # 468

Date Completed: 11/2/82 TAIS (level II) Days

61 4

Deferrals To:

Ecological Effects Branch

Residue Chemistry Branch

Toxicology Branch

1.0 INTRODUCTION

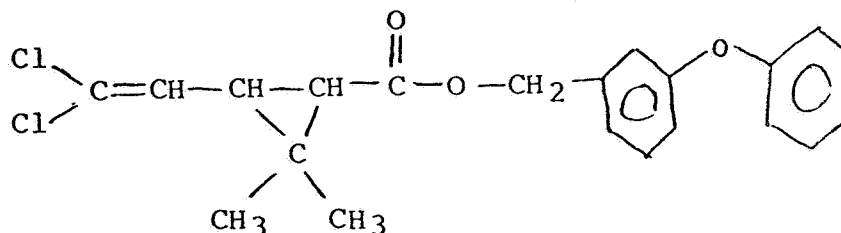
ICI Americas, Inc., has submitted an application for registration of AMBUSH for use on pine seed orchards for control of certain insects.

1.1 Chemical

Common name: Permethrin

Chemical name: (3-phenoxyphenyl)methyl (+)-cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropane carboxylate

Chemical Structure



2.0 DIRECTIONS FOR USE

<u>Crop</u>	<u>Insect</u>	<u>AMBUSH*</u>	<u>Further Use Instructions</u>
Southern pine seed orchards	Coneworms, Seed bugs	13 fl oz/100 gals water (0.025% dilution by wt.) for high volume sprayers	Apply first application within 1 week of female flower closure or peak pollen flight for webbing coneworm control. For other coneworms and seed bugs, apply first application within 30 days following female flower closure. Repeat applications at intervals of 4 weeks, but do not apply more than 6 applications.
		4.25 pts/100 gals water (0.125% dilution by wt.) for low volume sprayers	
		0.75 lbs ai/ac/application in not less than 10 gals of water for aerial applications	
			Apply approximately 5-10 gals of the 0.025% dilution per tree with high volume sprayers. With low volume sprayers, apply 100 gallons of the 0.125% dilution per acre.
			Do not graze or harvest cover crop. Avoid contact with open water.

3.0 DISCUSSION OF DATA

All environmental chemistry data referenced have been reviewed and judged acceptable. For complete discussion of data see previous EFB review of 7/31/78 (EPA Reg No. 10182-RI). In this review certain deficiencies were noted. However, in subsequent reviews, the data were judged acceptable.

4.0 EXECUTIVE SUMMARY

- 4.1 The environmental fate of permethrin is known for the proposed use. It is noted that pine seed orchards are not food crop areas and rotational crop data or a restriction is not required.

5.0 RECOMMENDATION

- 5.1 EFB concurs with the proposed application of registration of permethrin for use on pine seed orchards for control of certain insects.



Clinton Fletcher
Review Section No. 1
Environmental Fate Branch
Hazard Evaluation Division